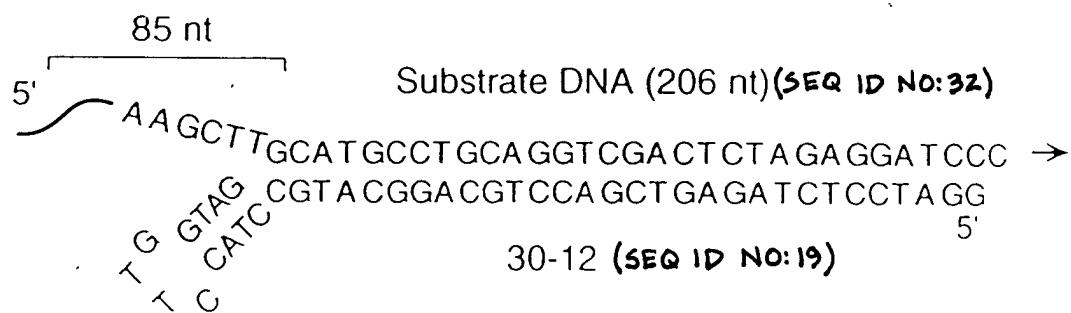
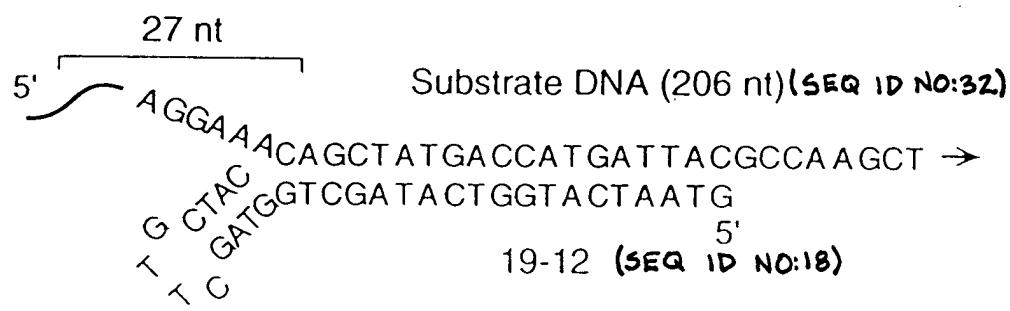


FIG. 6

FIG. 12A



15 nt

Substrate RNA (46 nt)(SEQ ID NO:161)

5' A A GCUUGCA UGCCUGCA GGUCGA CUCUA GA GGA UCCCC 3'
3' CGTACGGACGTCCAGCTGA GATCTCCTAGG 5'

30-0 (SEQ ID NO:20)

FIG. 13A

(SEQ ID NO:162)

-35

-10

RBS

TTGACAAATTATCATCGGCTCGTATAATGTGTGGATTAGCAGGAAACAGCC

MetAsnSer...

ATGAAATTGGACTCGGTACCCGGGAATCCTAGAGTCGACCTGCAGGCAATGCAAGCTGGCACTGCC

EcoRI

SstI

KpnI

BamHI

SalI

XbaI

PstI

SphI

HindIII

FIG. 14B

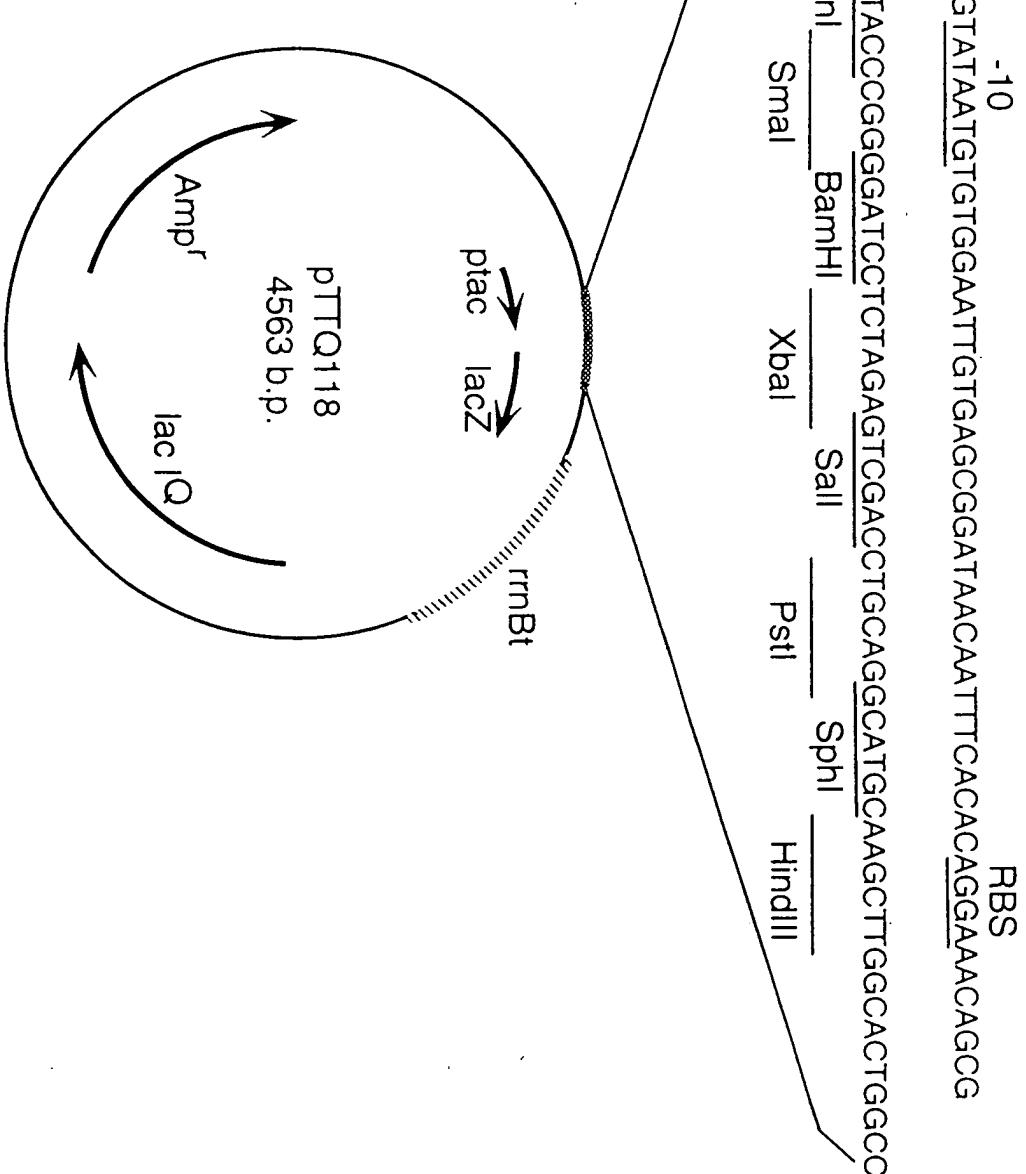


FIG. 14A

RBS: Ribosome binding site
ptac: Synthetic tac promoter
lacIQ: Lac repressor gene

lacZ: Beta-galactosidase alpha fragment
rrnB_t: E. coli rrnB transcription terminator

FIG. 14C

(SEQ ID NO: 163)

AGATCTCGATCCGGCAAATTAATACGACTCACTATAGGAGACCACAACGGTTCCCTCTAGAATAATTGTTT
Bgl II T7 Promoter Xba I

MetAlaSer...
AACTTTAAGAAGGAGATATACATATGGCTAGCATGACTGGGGACAGCAAATGGGTCGGATCCGACT
RBS NdeI

T_Φ

BamHI

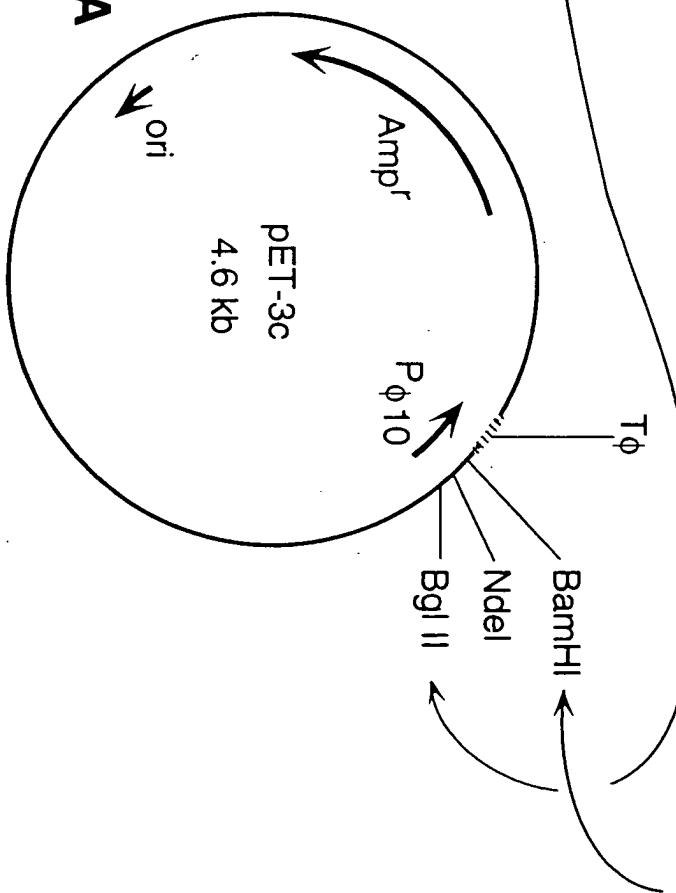
P_{Φ 10}

NdeI

Bgl II

FIG. 15B

FIG. 15A



P_{Φ 10}: Bacteriophage T7 φ 10 promoter
T_Φ: T7 φ Terminator

FIG. 15C

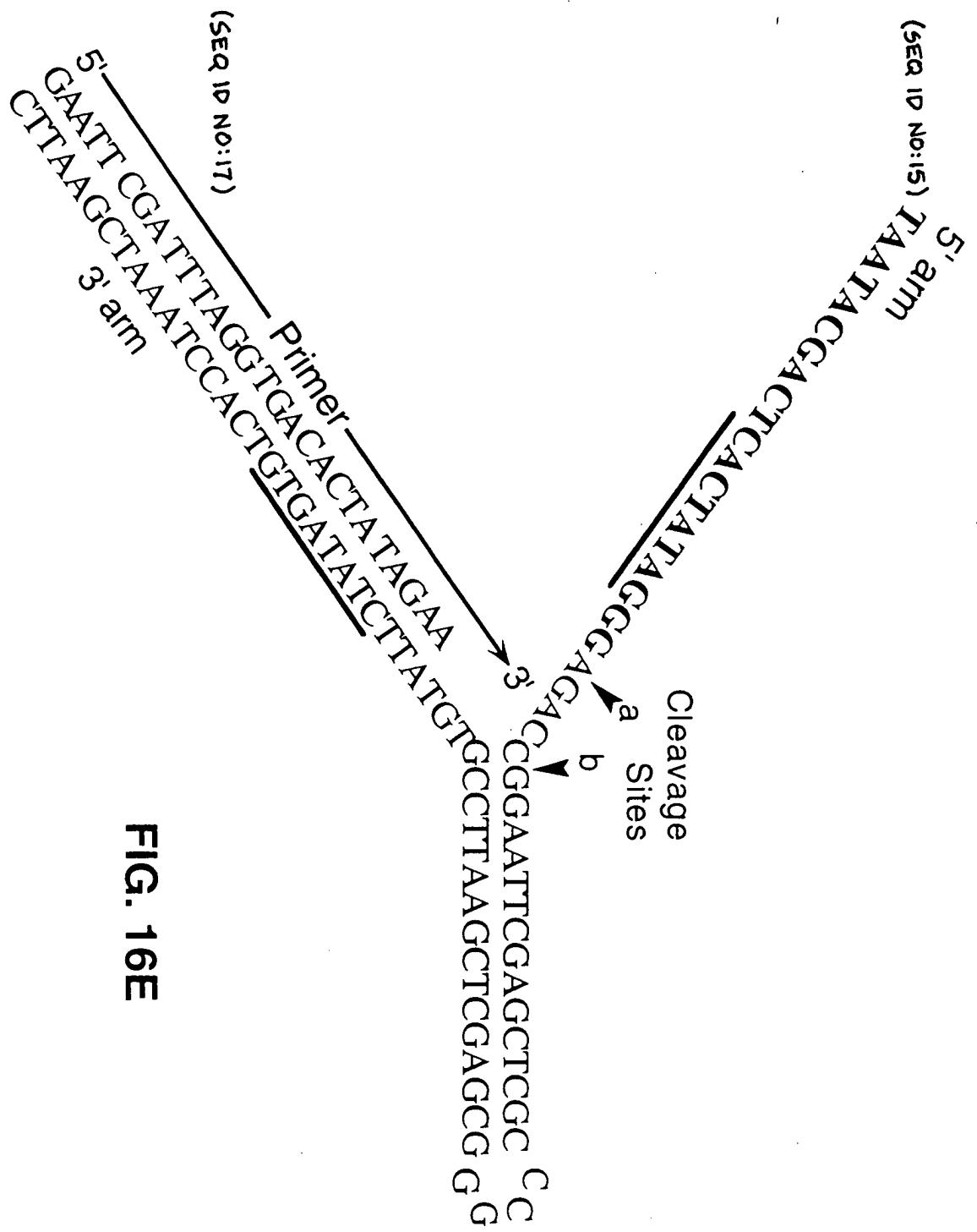


FIG. 16E

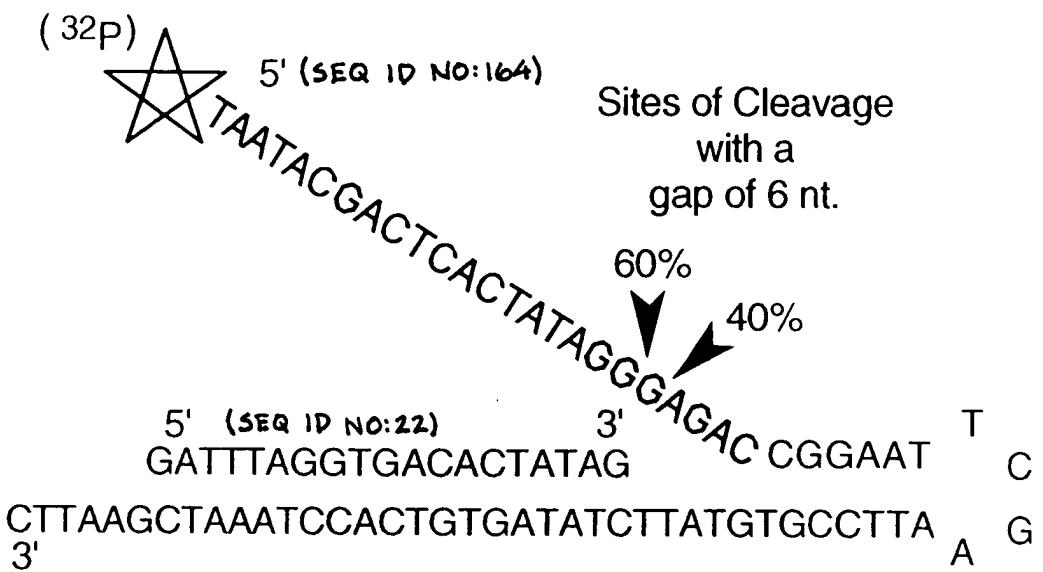


FIG. 19A

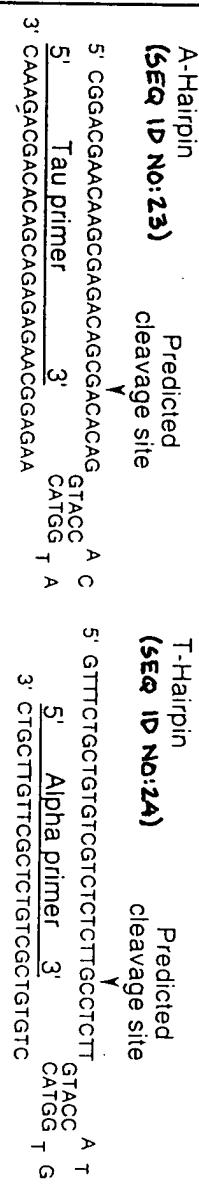
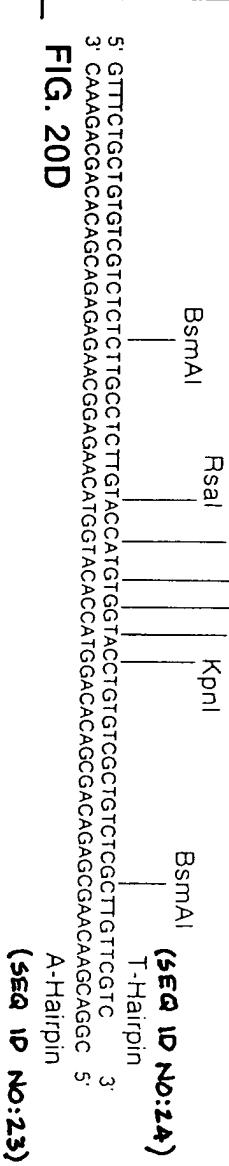
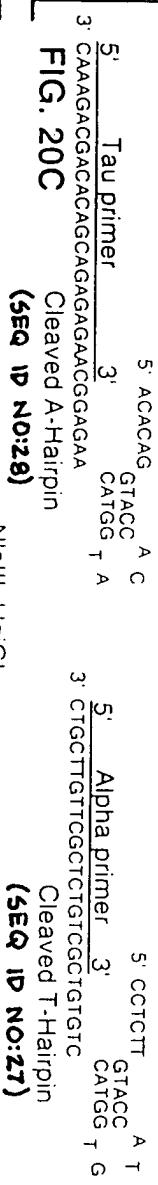


FIG. 20A

Sequence of alpha primer: **(SEQ ID NO:25)**
 5' GACGAACAAGCGAGACAGCG 3'

FIG. 20B



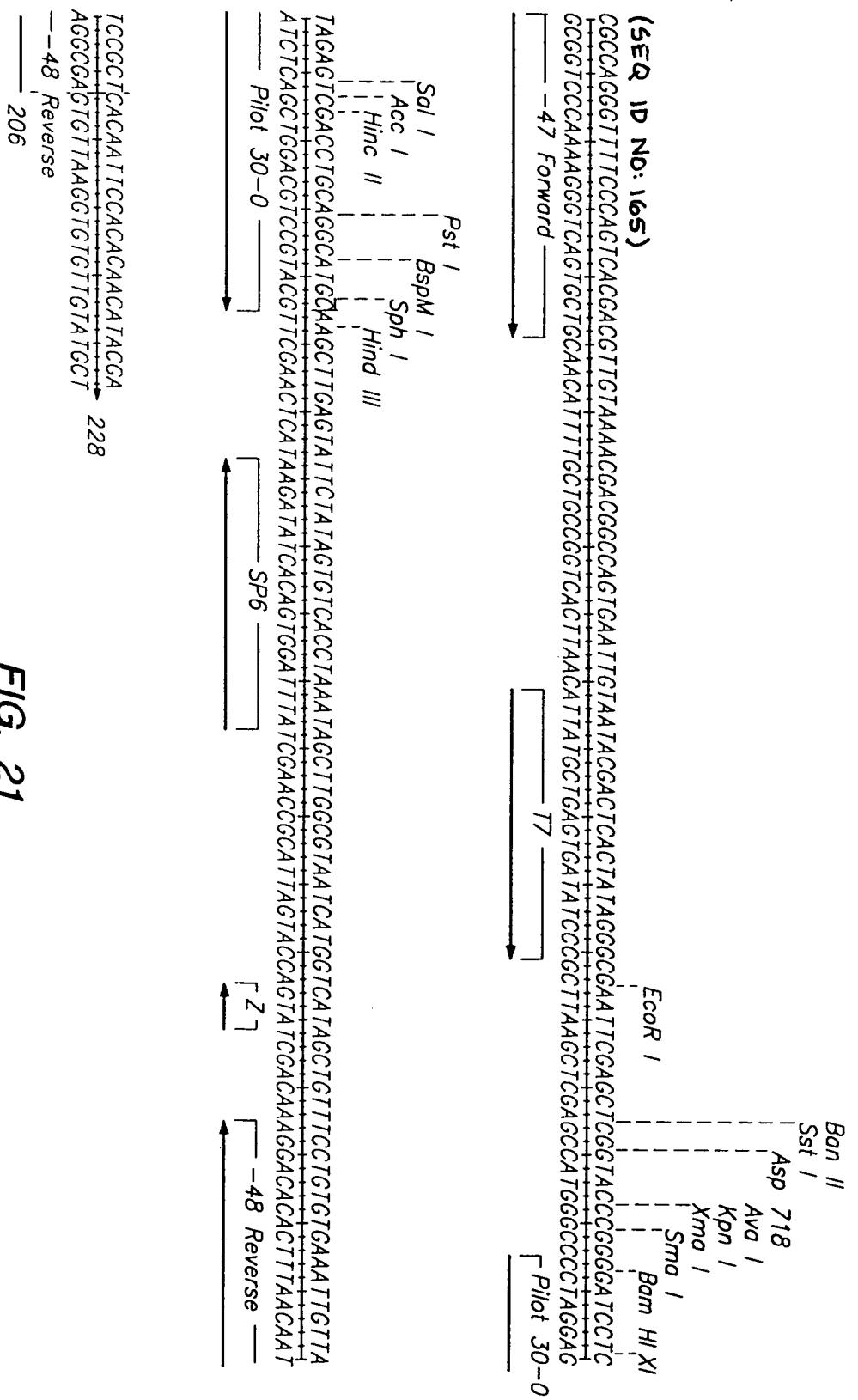


FIG. 21

TCCGCTCACAAATTCCACACAACTACCA
 AGCGAGCTTAAGGTGTGTGATGCT 228
 ---48 Reverse

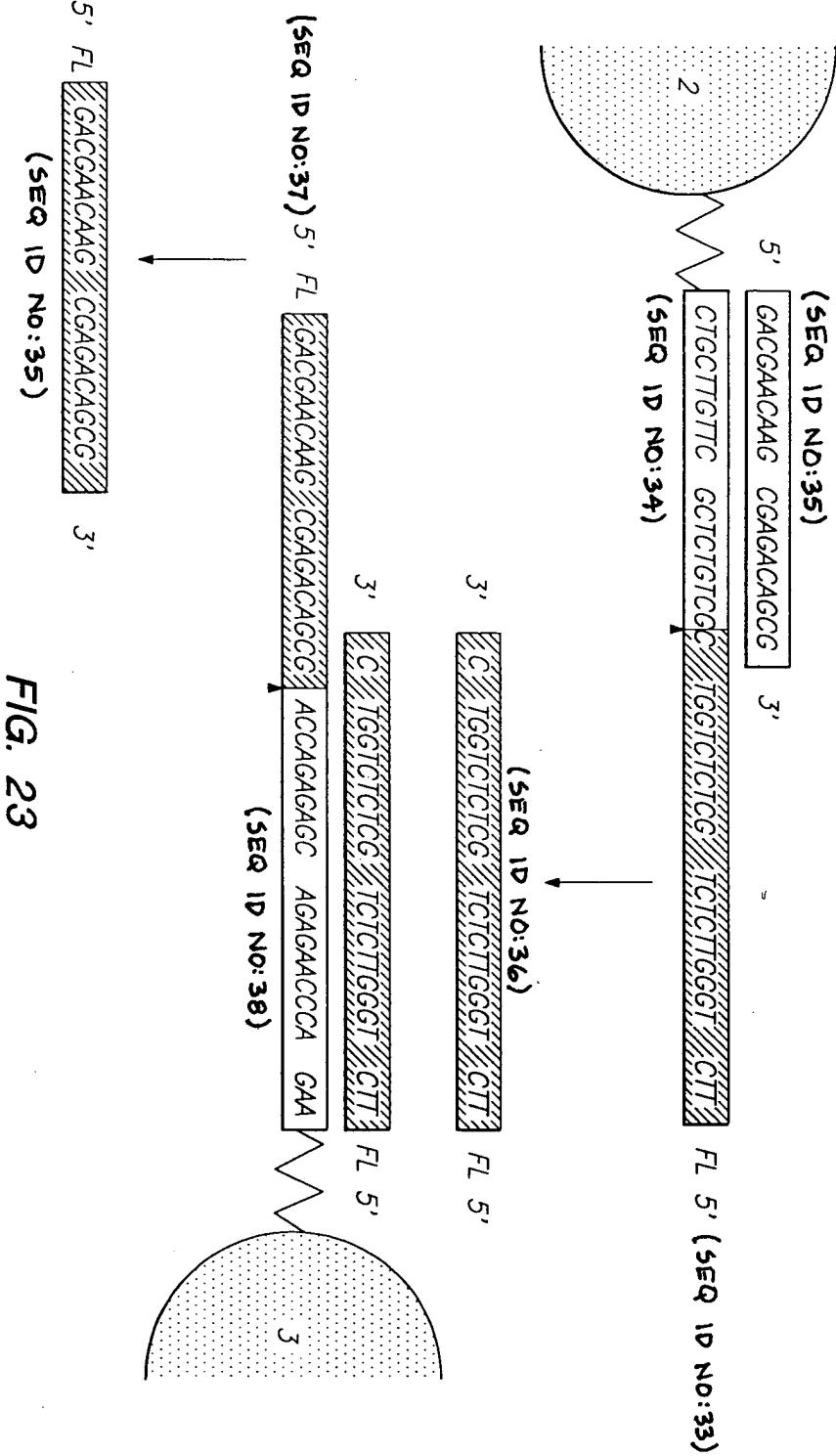


FIG. 23

0000-0000-0000-0000

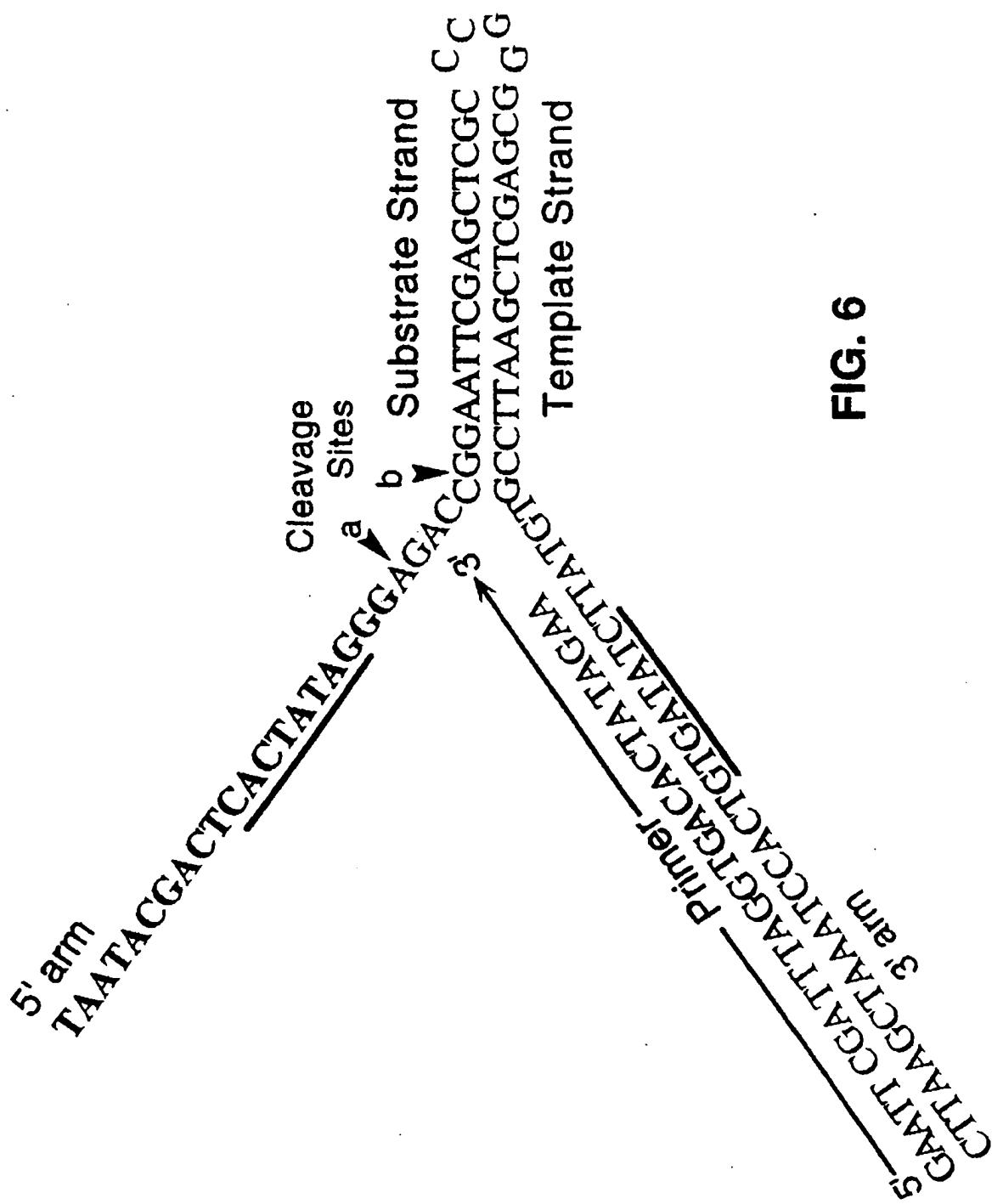


FIG. 6

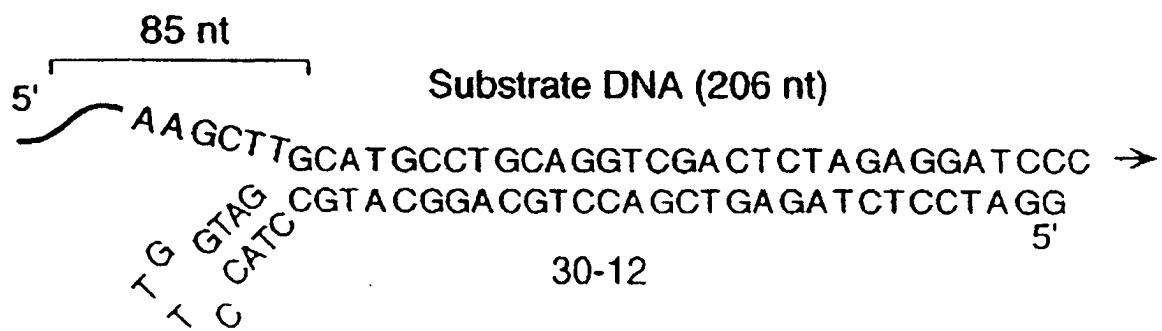
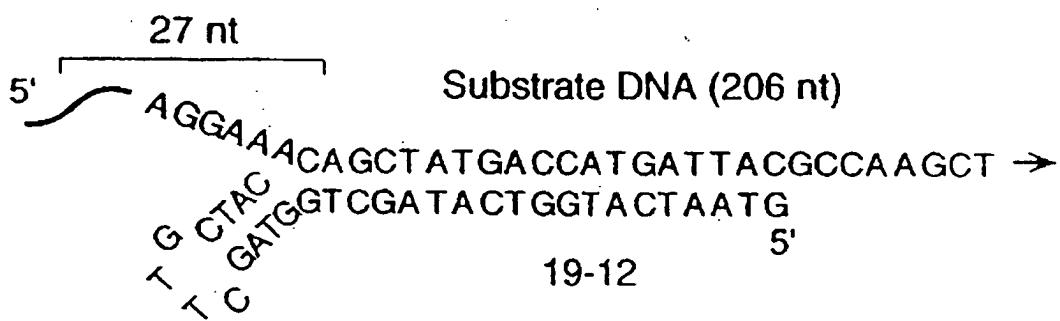
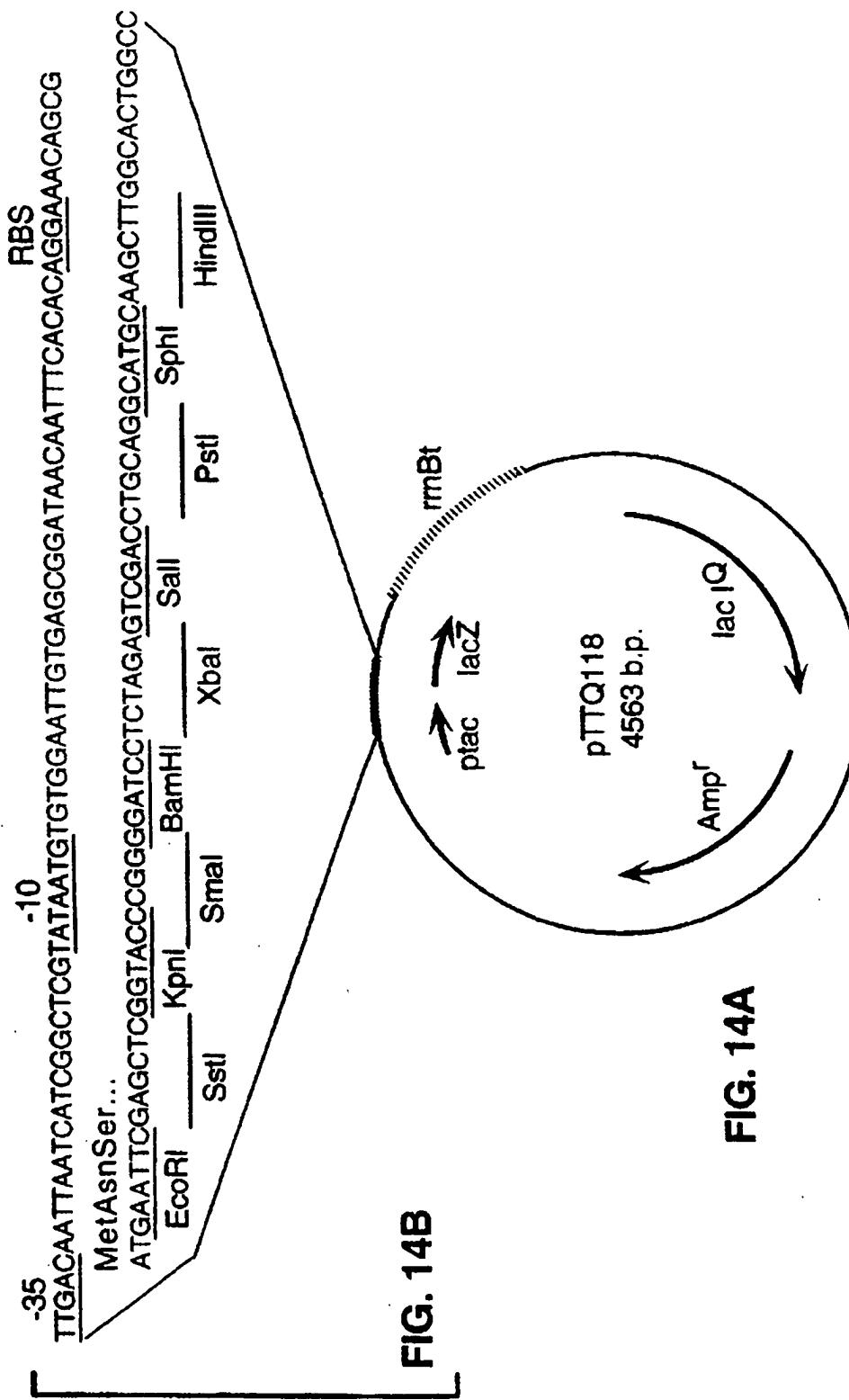
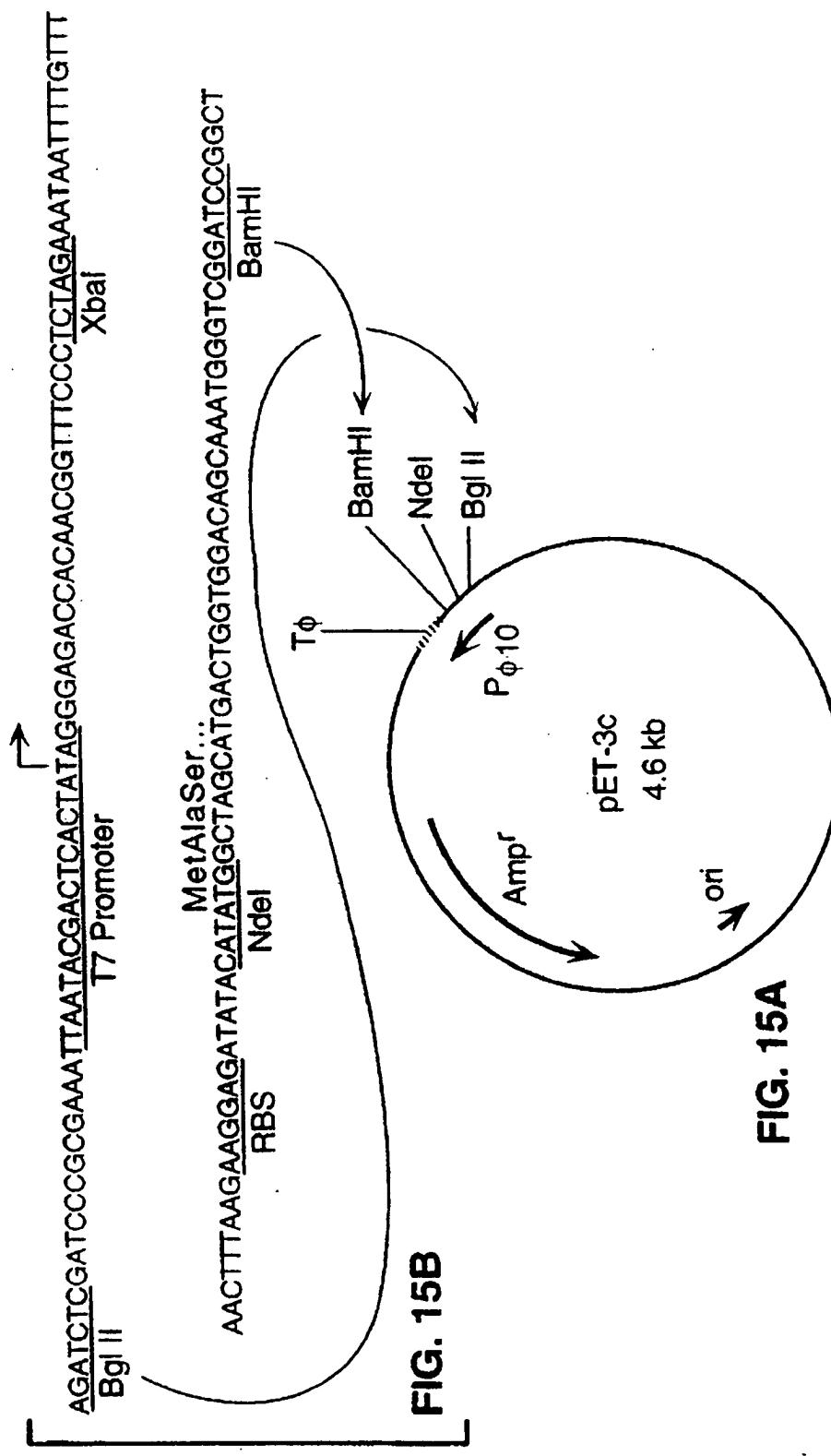
FIG. 12A

FIG. 13A



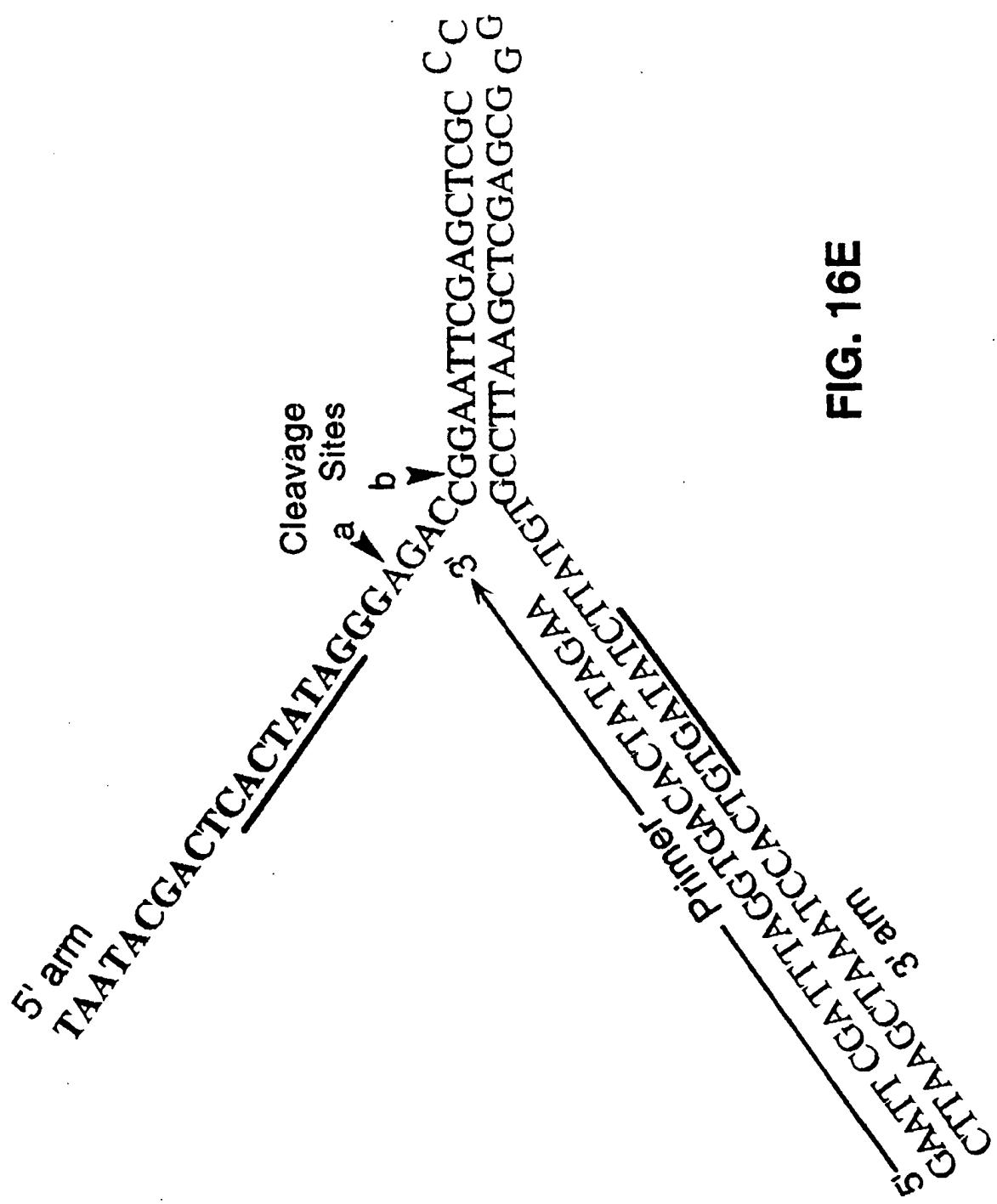
lacZ: Beta-galactosidase alpha fragment
rmBt: E. coli rmB transcription terminator
RBS: Ribosome binding site
ptac: Synthetic tac promoter
lacIQ: Lac repressor gene

FIG. 14A**FIG. 14C**

**FIG. 15A**

P ϕ 10: Bacteriophage T7 ϕ 10 promoter
T ϕ : T7 ϕ Terminator
RBS: Ribosome binding site

FIG. 15C

**FIG. 16E**

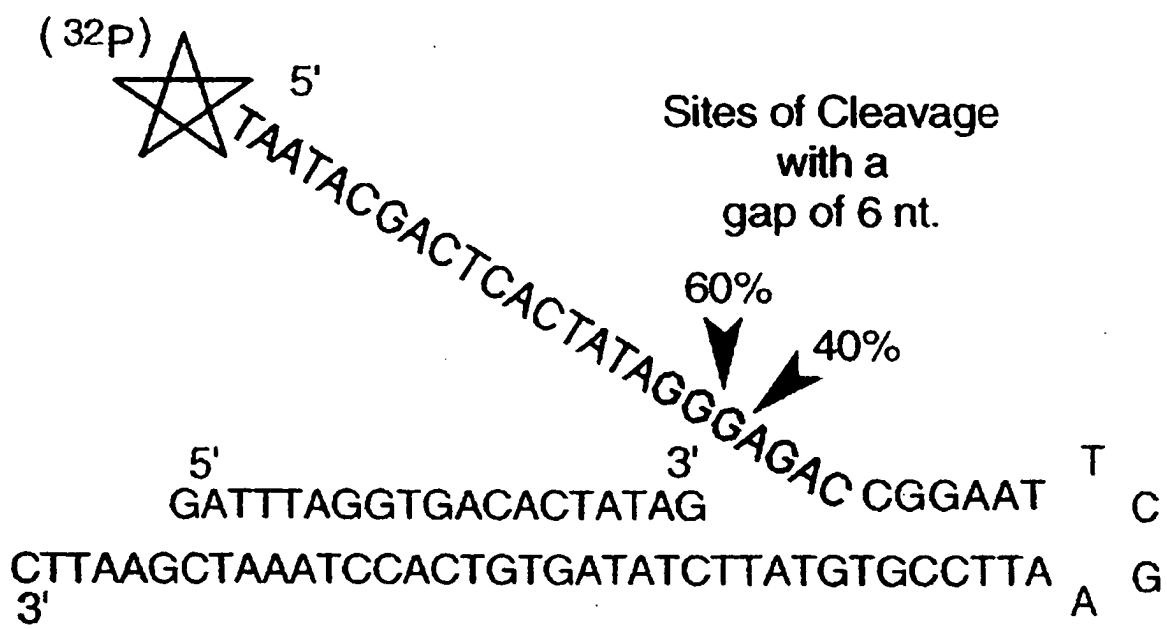


FIG. 19A

2024 RELEASE UNDER E.O. 14176

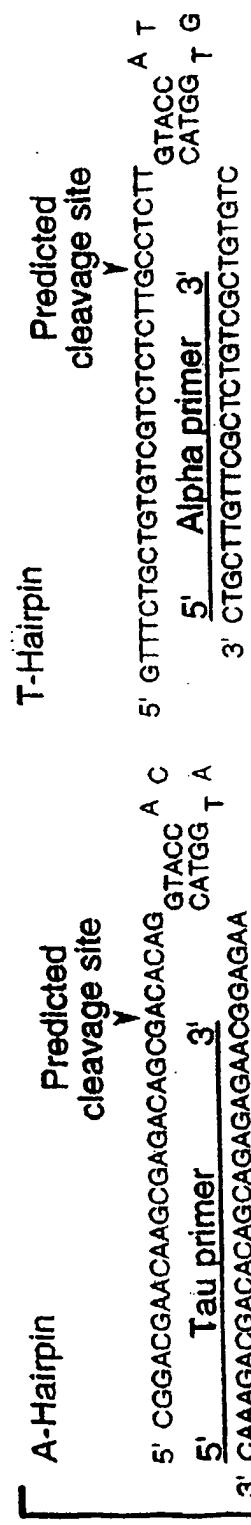


FIG. 20A

Sequence of alpha primer:
5' GACGAAACAAGCGAGACAGCG 3'

FIG. 20B

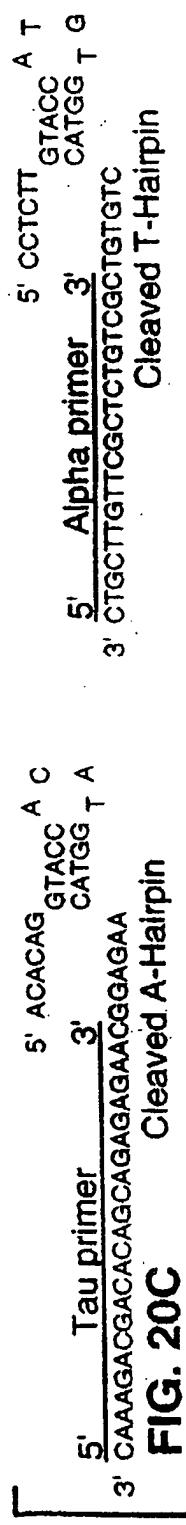
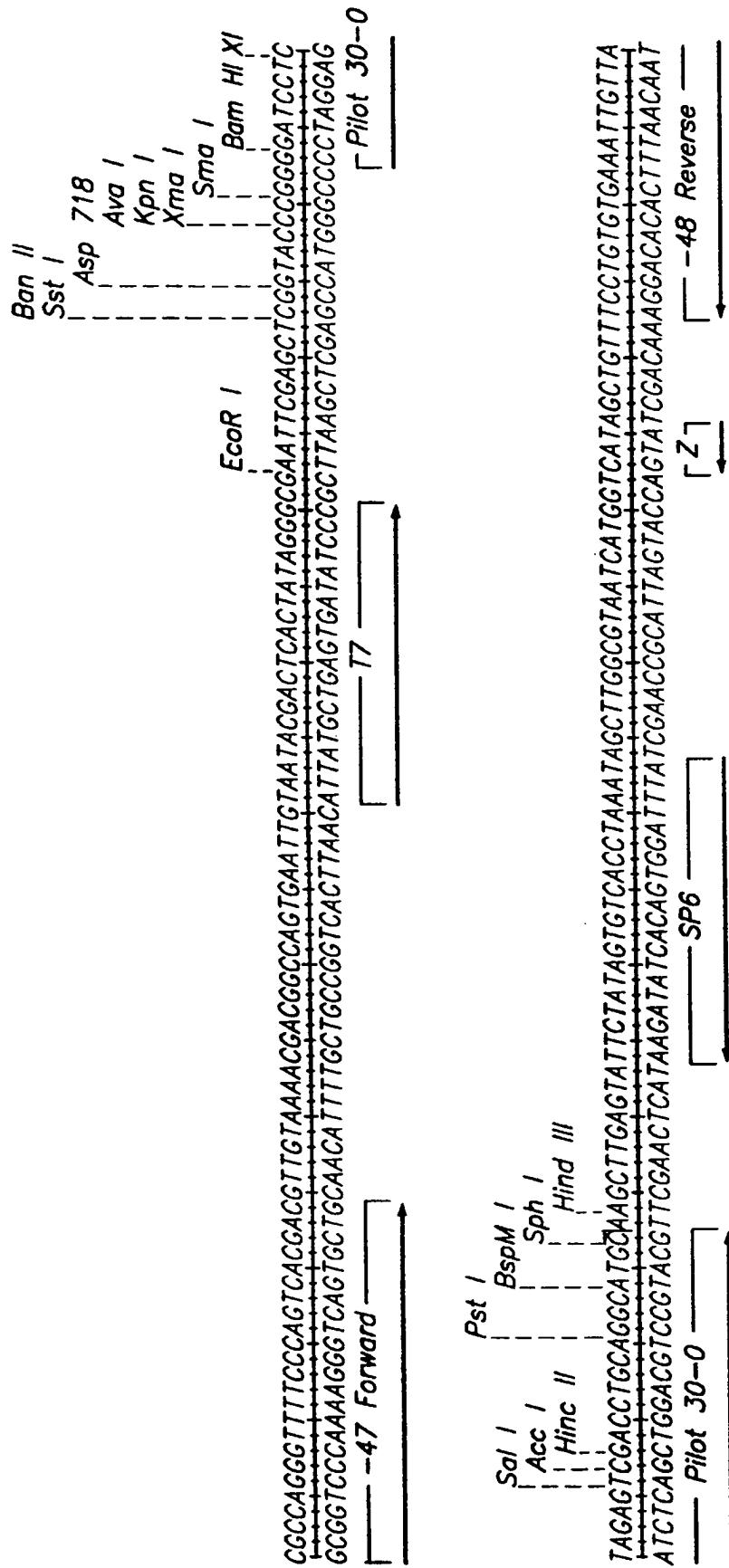


FIG. 20D



TCCGGCTCACAAATTCCACACAAACATACGA 228
AGCCGAGTGTAAAGGTGTGTTGATGCT
—48 Reverse —————— 206

FIG. 21

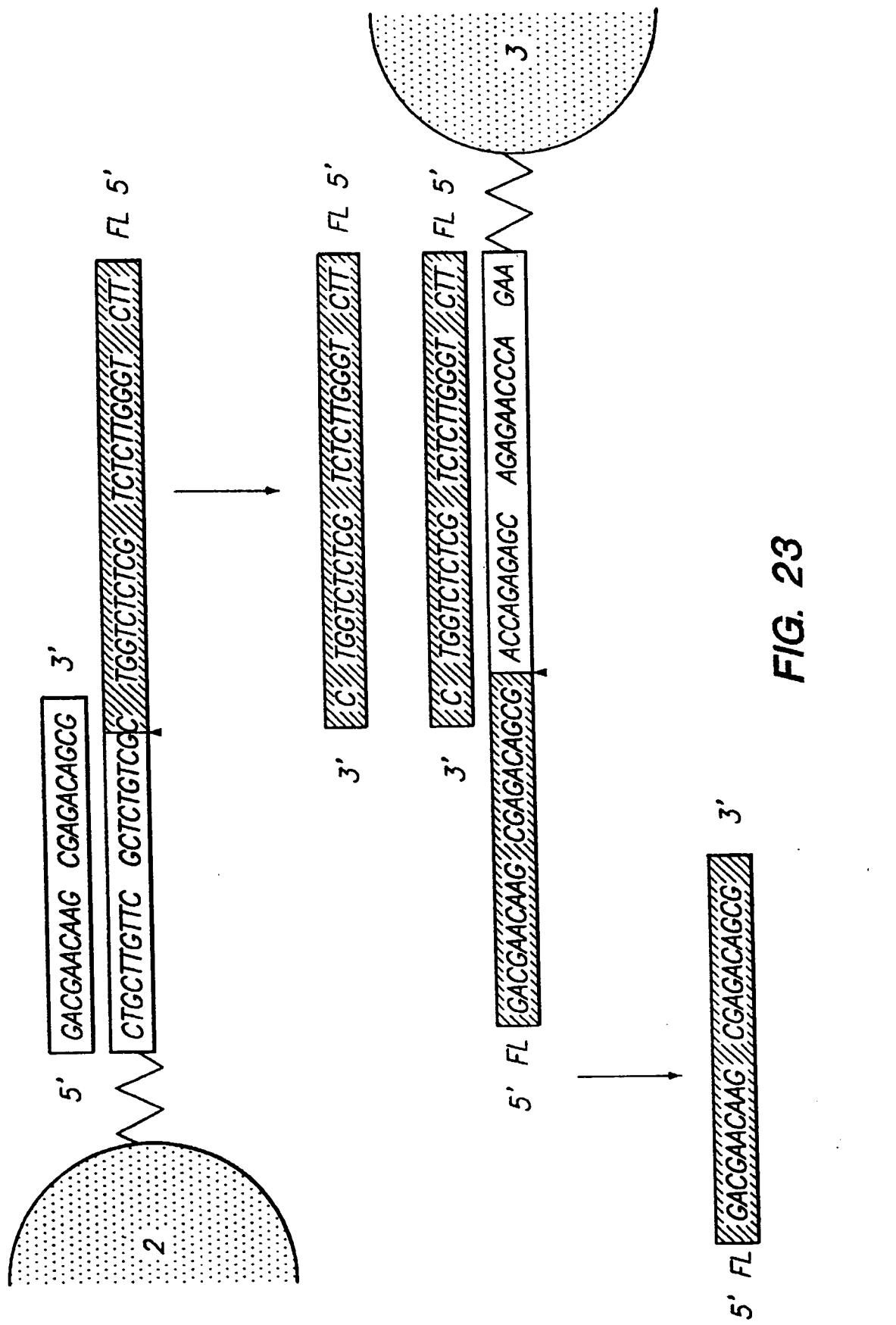


FIG. 23